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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,540	09/03/2004	Yoshitada Oshida	520.44257X00	1191
	7590 09/03/2008 , TERRY, STOUT & KRAUS, LLP		EXAMINER	
1300 NORTH SEVENTEENTH STREET			RUTLEDGE, DELLA J	
SUITE 1800 ARLINGTON, VA 22209-3873			ART UNIT	PAPER NUMBER
			2851	
			MAIL DATE	DELIVERY MODE
			09/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/506,540	OSHIDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Della J. Rutledge	2851			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tinwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>May</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowated closed in accordance with the practice under <u>B</u>	s action is non-final. ince except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-23 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according to a positive pending in the application	wn from consideration. or election requirement. er.	Examiner.			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 05/08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

New grounds of Rejection

1. New grounds of rejection on the pending claims appear below.

Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3, 7 10, 12, 15, 17, 22, and 23 rejected under 35 U.S.C. 102(b) as being anticipated by Kudo (JP 2001-085308).

In regard to claims 1, 10, 15:The reference has a method of illumination, comprising: emitting light from each of a plurality of light sources, the fiber bundle 19 has plural light sources; spatially decomposing the light emitted by means of the integrator 110 to form a multitude of pseudo-secondary light sources; and overlapping the light emitted by means of the condenser lens 116.

In regard to claims 3, 12, 17: The light sources are laser light sources.

In regard to claims 7-9, 22: the apparatus controls the energy of the light sources; the light ray emitted enters the integrator 110; the integrator provides the homogeneity and uniformity of the light rays.

In regard to claim 23: the detector 115 measures the light intensity

4. Claims 1, 2, 4, 8 – 11, 13, 15, 16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Abe et al. (JP 05-045605).

In regard to claims 1, 10, 15:The reference has a method of illumination, comprising: emitting light from each of a plurality of light sources 1; spatially decomposing the light emitted by means of the integrator 4 to form a multitude of pseudo-secondary light sources; and overlapping the light emitted by means of the condenser lens 5.

In regard to claims 8, 9: the apparatus controls the energy of the light sources; the light ray emitted enters the integrator 4; the integrator provides the homogeneity and uniformity of the light rays.

In regard to claim 11, 16: the light emitting region is analogous to the shape of the region illuminated

In regard to claims 13, 18: the integrator appears to meet the ratios claimed

Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 2, 4 6, 11, 13, 14, 16, 18 21are rejected under 35 U.S.C. 103(a) as being unpatentable over Kodo (JP 2001-085308).
- 7. In regard to the following claims, see arguments below and the text of the reference at paragraphs 0012, 0015, 0029, 0053-0059 and 0069.

In regard Claim 2, 11, 16: to the arrangement of the sources analogous to a shape of the region to be illuminated, such an arrangement is known and reduces the need to use other components to shape the illumination. Art Unit: 2851

In regard to Claim 4, 13, 18: the integrator is used to control the uniformity of the illumination and one of ordinary skill in the art would know how to select the ratios of the integrator components to achieve that goal.

In regard to Claim 5, 14, 19: one of ordinary skill in the art would know that additional components may be needed to further improve the uniformity of the illumination.

In regard to claims 6, 20, 21: controlling the divergence of the angle controls the distribution of the illumination, and one of ordinary skill in the art would be motivated to control or adjust the divergence angle.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kurtz et al. reference relates to printing systems and teaches that a semiconductor laser array may be used as a light source.

Response data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Della J. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on (571) 272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Della J. Rutledge/ Primary Examiner Art Unit 2851

dr 9/02/08